

# THE CARRIER



April 2002 <http://www.mdarc.org> <http://www.pacificon.org>

**Official Newsletter of the Mt. Diablo  
Amateur Radio Club**

## **General Meeting Friday, April 19**

### **MDARC Annual Auction**

Doors Open 6:00 PM

First Gavel 7:00 PM

Final Gavel 10:00 PM

Our Savior's Lutheran Church  
1035 Carol Lane  
Lafayette CA

## **What's inside**

President's Message 1  
Board Meeting Minutes 2  
General Meeting Minutes 4  
SFARC "2002 Camping Adventure" 4  
Editor's Screed 5  
Board Members 7  
Calendar Back Page

## **Weekly Nets**

Monday 8:00 PM SATERN Net Salvation Army 147.06  
Wednesday 7:30 PM ATV Cable Channel 58  
Thursday 7:30 PM Mt. Diablo Amateur Radio Club 147.06  
RACES and ATV Nets see page 3

## **A TRIBUTE**

So many volunteers, so little recognition. So much self-less effort directed to both known and unknown other people. Coming up is a family special event for us. But I will focus on the larger picture. Amateur radio operators are among the most giving, generous, eager-to-help group of people in the country. We all heard about the large number of hams that worked at Ground Zero for weeks. We know the many stories of major disasters where the hams were the only communications available. But another group of volunteers is the Boy Scout Scoutmasters- those adult leaders who help train, supervise, counsel, encourage, guide and care for our young boys.

I began writing this month's message as a proud father of a new Eagle Scout. But the true meaning is the behind-the-scenes work of parents and other adult helpers. And that's the link with radio. Both organizations share many traits. And both groups frequently do their work without the awareness and appreciation of the larger community. I know, we don't do these jobs for recognition but rather for the feeling deep inside that we make a positive difference in the world. When I ask at our meetings how many are involved with RACES or public service I always get much higher than a 50% positive response. I believe that at any gathering of Americans the response rate would also be that high. When good people are asked to help out they come through 5 x 9.

I also understand the "lump-in-the-throat" that shows up in me whether I am the parent or a helper at an event. When I see the pride and success of the person I assisted it makes all the work, the getting up early, the standing in the rain, all worth it. We get much more out of helping others than the person getting the help does. Being a helper gives life meaning. We should all be as proud of being involved in our community doing our public service and RACES as I am of my son, Aaron, KE6ZZS, our newest Eagle Scout.

73, Terry

## Mount Diablo Amateur Radio Club

### Minutes of the Board of Directors Meeting on March 4th 2002

President Terry Matzkin, KE6WRE, opened the meeting at 7:37 p.m. in Emil Villa's in Concord. Present were Vice President, Dave McIntyre, KG6ACD, Secretary, Eoin O'Donoghue, KD4YEQ, Emergency Coordinator Harry Styron, K6HS, directors Howard Burk, KE6PTT, and John Schulze, KR6CR. Also present were Greg Estep, KE6VTA, Keith Lattin, N6PMF, Bob Beard, KG6FPZ, John Pascale, NN6E and Social Chairman, George Roush, WB6OFH. Jay Caldis, KT6Y and Treasurer Trevor Hall, WA6JAU, were excused.

The minutes of the previous meeting were approved. Eoin O'Donoghue gave a Membership update advising that we currently have 281 members of which 160 support Rocky Ridge Repeaters. Harry Bier, WA6TNI, a long time member became a silent key on 2/17. It is estimated that we have 20+ new members and we would like to track how many joined as a result of the solicitation mailing by Bob Beard/Terry Matzkin. A phone tree was activated to follow up on outstanding renewals, yield approximately a 50% success rate of renewals. Membership cards were mailed to all Club members for 2002. That card included some frequently used repeater codes and the Technical Group agreed to make sure those codes were programmed. The Directory is in the process of being produced and the meeting identified a few updates to be verified. Regular Club mailings should be more accurate, given that we are now using the 2002 Membership files, which have the latest membership information. Also address-corrections (including email) will be entered into the Membership files so they remain current. David McIntyre recommended that in future we maintain a "Member Since" field for each member and put it on the membership card. Data on interests that members expressed on their application forms is to be provided to Committee chairs as requested at the meeting.

George Roush advised that he left flyers for the Technician class at a number of local Harbor Master offices & Libraries. If the wording reflected more clearly that the course itself is free and that the charge is for the manual, it would be better. Other outlets for

these flyers were put forward, including shop and electronics classes.

The Technical Committee gave the following updates:

- 7 spare tower cables were identified as potentials for the repositioning of the 2m transmitter back onto, and high on the tower so receiver cover south of the mountain is better for repeater users

- Work is in progress on mitigating a spurious signal that has been causing significant problems on the 220 repeater.

- Equipment for the voting system is being collected mostly as inexpensively as possible.

Bob Beard is now the official Editor of, and the contact point for the Carrier newsletter. Bob looked into folding equipment but at \$400+ feels it is too much for the Club. He is looking into getting ads from stores that hams often use. Bob was recognized for the great work he is doing with the Club website, with very timely reports, updates and pictures.

Field Day planning is progressing and the Committee plans to use the May General Meeting to publicize those exciting Field Day plans. Terry requested that the committee give a full report of their plans to the April Board meeting.

Greg Estep reported that final tally from last year's Pacificon was in, and it resulted in a gain of \$2432.73 to the Club, that is over and above the budget plan.

John Pascale requested the Club trailer for the Cinderella Classic on April 6th. This is an all-women bike race that is sponsored by the Livermore Amateur Radio Club. John is to get registered so he can tow this trailer. John Schulze is to bring the Club banner to the next meeting so it can be stored in the trailer.

Terry obtained a radio for the next door prize. The last radio door prize realized a profit of \$200+.

Tickets sales for the ICOM IC-2800 dual bander are progressing very well.

Terry adjourned the meeting at 8:45PM.

Respectfully submitted,

Eoin O'Donoghue, KD4YEQ

Secretary



## List of Scheduled Activity for W6CX ATV

Saturdays 8:00 AM      Coffee Net

Sundays 8:00 AM Coffee Net

Wednesday 7:30 PM      Electronics Class  
with KF6IQL

Thursday 8:00 PM      General ATV  
ATV Net

## Upcoming Public Service Events

**MDARC** supports many community groups and agencies by providing communications for special events. This is a fun way to get out and use your radios, further a worthwhile cause and gain valuable experience that will come in handy in the event of a major emergency or disaster. Here is a list of upcoming events:

**MS Walk 2002** 4/7/02, Walnut Creek, Heather Farms Park area.

**Top Hat Classic**, 10, 25, 50, or 75 mile bike-a-thon. 4/27/02, Pleasanton/Castro Valley/Walnut Creek/Martinez.

**March of Dimes Walk America 2002** 4/27/02, Walnut Creek, Heather Farms Park area

**Concord Mt Diablo Trailride Association Trailride** 5/4/02, Mt. Diablo

**Human Race – walk/run** 5/11/02, Lafayette Reservoir

**Mt Diablo Trail Adventure** 6/1/02, Castle Rock Park, Walnut Creek

**Escape from Alcatraz Swim and Bike Ride** 6/16/02, San Francisco Bay and waterfront

**Moraga Horseman's Trailride** 6/22/02, Redwood and Chabot Regional Parks

**Alcatraz Challenge Swim, Bike and Run** 6/30/02, San Francisco Bay and waterfront

**Pleasant Hill 4th of July Parade** 7/4/02, New Downtown in Pleasant Hill

**Pacific South Trailride** 9/14/02, Redwood and Chabot Regional Parks

Check out the Public Service Events page on the **MDARC** website for more information on how to help with these events.

## The **MDARC** Annual Auction is April 19, 2002

The club will hold its Annual Auction April 19. Ham gear and related equipment are welcome. Doors open at 6:00 PM and the auction begins at 7:00. The location is Our Savior's Lutheran Church, 1035 Carol Lane, Lafayette (a map is available on the club website's Meetings page).

Some great stuff is on the block this year: Drake T-4X Transmitter, Collins Receivers, Heathkit testing tools, SWAN Power Supply, an Antenna Tuner and lots more!

Ten percent commission charged to seller. No reserves, \$1.00 "buybacks". This will be a 100% "boat anchor" - free auction!

This is a great opportunity to clean out the "shack" or to search for bargains. See the Annual Auction web page for a partial list.

For more information, call John Schulze, KR6CR at 925-681-0552.

Everyone is welcome!

## Minutes of the General Meeting on March 15th 2002

Terry Matzkin, KE6WRE, opened the general meeting at 7:30 PM. Terry announced that tickets for big radio, the IC-2800 dual bander mobile radio were going well and also encouraged folks to get tickets for this meeting's door prize radio. The VE testing summary reported that 3 of the 4 individuals who took tests today were successful. Eoin O'Donoghue, KD4YEQ, advised that the Club had 281 members of record and approximately 6 more applications received during the meeting. The 2002 Directory is being finalized and the printed version should be available in a couple of weeks.

Pete Harris, KE6ZIW, Public Service Chair, reminded the meeting of the many upcoming public service events ranging from walks, racing, cycling and horse trail-rides. To join in the fun, participants should sign up at the back of the meeting.

John Schulze, KR6CR, reminded the meeting that the Auction will be held next at month's meeting and there are always great bargain to be had. This is an ideal opportunity to clean out the shack. John's tip is

that it is generally better not to set a reserve price. Also note that the club fee is 10% of the auction price.

Lauren Styles WA6CIE, spoke on the progress and expectations for a great Field Day which is coming up on June 21-23rd. John Pascale, NN6E, has started a series of email updates to those that checked Field Day as an interest on their Membership Application. He is looking for signups for duties. Also anyone interested in the amateur radio magnetic signs, jackets or vests should hook up with John.

The Technician training course is going well at the Salvation Army Church in Concord, with approximately 7 students.

After a short break, the guest speakers of the evening, Rich Harrington, KN6FW and Henry Schroeder, KF6PCE, spoke on Time of Arrival Radio Direction Finding. Both speakers are part of an active Fox Hunting group in the Bay Area. They demonstrated a unit Rich built and actually used it to locate a transmitter that was in the corner of the meeting room. Kits & lots more additional information can be had from their company AHHA! Solutions.

Finally the major door prize of the evening, a Yaesu VX1-R radio was given away.

Terry adjourned the meeting at 8:50PM.

Respectfully Submitted

Eoin O'Donoghue, KD4YEQ

Secretary

## **RACES Nets Every Thursday at 19:00 hours**

Central County Jim Brunk N6BHX 145.680 /s

South County Ed Ritchie K6SFD 146.355 /+  
100pl

East County Jim Tittle KC6SOE 146.535 /s

West County Rich Parker KD6JCT 145.110 /-



## **San Francisco Amateur Radio Club's 34th Annual Iowa Hill Camping Thing:**

### **"A 2002 Camping Adventure"**

This year's campout will take place June 7, 8 and 9 at the Sugar Pine Dam Recreation Area, one of the most beautiful spots in Placer County. This will be a joint venture between several members of the SFARC, MDARC, and other groups of radio amateurs who have been meeting for this annual event for over 30 years. We are limited to 50 people at this site so get your reservations in early.

The campground has water and restroom facilities, no hookups, but nice spaces for trailers, tents and motor homes. Clean large restrooms are conveniently located just for our group. There are plenty of trees as well as open space for stringing a G5RV antenna for your HF station if it is your desire to bring one. Working 2 meters and 440 into Sacramento and the Bay Area repeaters is not difficult.

On Friday around noon the ranger will unlock the gate for access to our site. Throughout the afternoon and the early evening the 145.43 repeater (PL 162.2hz) and 146.49 simplex will be monitored. Park in any available space.

Breakfast is provided Sunday morning and barbeque coals are provided Saturday night. You are on your own for all other meals.

After dinner Saturday night, the campfire will be started so bring your own marshmallows. The campsite will provide the sticks. Enjoy the fire as we sing, chat, or whatever you would like to do at this time. Plus we will have a real space odyssey with a few astronomical telescopes set up.

Sunday morning, preparations will be underway for the host provided barbecued pancakes. After many years of research we have perfected a process that prevents the pancake batter from seeping through the grill and on to the charcoal. Supply your own beverages and sides and share if you like.

The cost is \$20 per family. Interested? Contact Dave Bellici, WA6UHA, of the SFARC. Email him at [youha@pacbell.net](mailto:youha@pacbell.net) or call (415) 586-2515. Leave your name, home QTH, type of vehicle, and number in your party. A complete description of the campout can be found on this website: <http://www.sfarc.org/camp2002.htm>.



## Hello from the Editor!

My name is Bob Beard, KG6FPZ, and I'm the new Carrier Editor. I'm also a new Ham, having gotten my ticket just about a year ago.

I've been interested in electronics, radio and television for most of my life. When I was about ten I hooked up my Dad's old reel to reel tape recorder to TV cable to see if I could record anything at all. This was an audio recorder. I got beautiful, pristine images of purest snow, whether I was playing back my "recording" or not.

A little later I had lots of fun with a set of WWII surplus Field Telephones. I had a great time stringing telephone wire along the back fences to my friend's house up the cul-de-sac. I also shocked the \$\$\$@ out of myself by touching the wrong connections when the ring crank was being turned. Those phones were fun. The last I saw of them was on a ski hill providing communications between the top and the bottom of a slalom course. So, you could say my involvement in public service communications goes way back.

I built some kits: crystal radios, FM transmitters, etc. Amateur Radio was something I was aware of- my Grandfather was a Novice and my Brother-in-Law was a Technician with an impressive collection of receivers and an interest in packet radio- but I never really gravitated toward it until I visited a Radio Shack store in December of 2000.

I was looking for cell phones for my kids for Christmas and Radio Shack was giving them away. For every \$100 you spent in the store they'd give you a phone. The HTX-245 2m/70cm "Amateur Transceiver" caught my eye. If I bought it I'd have two phones for the girls and a radio for me to play with.

Listening was both entertaining and informative. I learned how to scan up and down the bands and enter repeater frequencies into memory and scan them. I learned how er, political, the local repeater "scene" was. I listened and listened, but dared not push the PTT button because I wasn't licensed!

On one of my pilgrimages to West Marine in Oakland I stumbled into Ham Radio Outlet. After looking around a little I bought Gordon West's Technician Class study book and promised myself I'd master what was in it. As much as I wanted to

learn that stuff, it was really hard to keep motivated. Then I noticed a flyer in the Concord Library advertising a Ham Radio class to be taught by Tony Stanton, AC6GM, in Pittsburg. I jumped at the chance to learn in a classroom what I needed to pass the Technician class test. When George Roush, WB6OFH, spoke to us about MDARC before one of the classes, I joined right up because I was appreciative of the fact that the club had fronted the money for the textbooks. I aced the Technician test at the VE session when the course was over. It was so exciting when my callsign appeared on the FCC database. It was hard to remember so I wrote it on a slip of paper that I put in my wallet.

I went to my first MDARC meeting the day after I learned what my callsign was. I had some kind of newcomer's luck because I think I won all of the doorprizes: an MFJ wall clock/themometer, a soldering station and, I'm sure, some batteries, too! I found a bunch of reasonably friendly people. Nobody was gushing with how great it was to have me there, but I wasn't ignored either.

At my second meeting I discovered what I presently enjoy most about amateur radio: public service communications. My first event was the MS Walk in Walnut Creek. It was a great experience in directed communications. I felt like I was contributing to something worthwhile at the same time I was having fun using my radio. I drove my Volvo wagon around much of the course as a "sag wagon". It's not a new car and I think that more than one tired person decided they'd rather complete the course than be seen in it (that's certainly the way my kids feel, anyway). The one person who did accept a ride back to the starting line seemed without pride. I liked her.

My second event was the Examiner Bay to Breakers race. I was a "COMMUNICATOR" riding along with two paramedics, 500 lbs. of ice and a grumpy driver in a Red Cross mini van. The absolute high point of the day happened before the race began. We three left the sulking driver and made our way to the starting line. It was still very early and only a few thousand people had gathered at that point. Our Red Cross credentials got us up onto a flatbed truck parked to overlook what was becoming a sea o' people massed together, waiting

for the race to start. While we dodged tortillas and other things being thrown at our heads we could survey the growing crowd. What some of the racers carried with them and wore or carried with them while wearing nothing at all was truly amazing. I have a fine appreciation for the human body, but some of the people who chose to run 'au naturel' were some of the best arguments for clothes I've ever come across.

Then the race was on and everybody took off for the finish line. Except us. We were officially "bringing up the rear", which our driver decided included every wino who had chosen the racecourse to sleep beside. We didn't move until the very efficient Department of Public Works street sweepers threatened to sweep us up, too. It got boring. One of the paramedics would beg the driver to please, please advance one-half block. The driver, in constant radio contact with HQ, moved only when directed to. Me, I wished I'd brought a CD player or my harmonica, I had so much to do. In defense of the driver, he was doing his job. Heaven forbid we drive on and have some racer collapse and die behind us. Anyway, as unpleasant as that turned out to be, I'll do the Bay to Breakers again. Maybe I can work a fixed aid station in Golden Gate Park next time.

My last event was the Moraga Trail Riders Endurance Trail Ride. This was a challenge because the event takes place in a huge regional park that is covered with immense redwood trees in very hilly terrain. We had a network of six or so radio operators and not all of us could hear all the others because of the terrain. So some of the communications had to be relayed between stations that could hear each other and that made the whole thing more interesting. Since all I have are HTs, I decided I'd buy a big antenna to compensate. I bought a Cushcraft 10-element YAGI antenna which I mounted on a tripod intended for a pair of halogen worklights. I bought a length of coax and the right adapter for my Icom (hey, I still have the RS radio, too) and I was in business. As I was setting up my rig the horseback riders were in awe or amused (not sure which). This antenna has terrific gain but is pretty directional. Unless it was aimed the right way, I couldn't hear, well, anybody. But properly posi-

tioned, it worked great! I was getting QRP and fox hunting experience all in one.

I'm looking forward to working public service events again this year. I'm also planning on taking RACES classes so I can better help out in the case of an emergency.

Being a member of MDARC has been and continues to be fun. I've been able to participate in a bunch of different areas pretty much just by expressing my interest in doing so. Thank you for letting me edit the Newsletter!

## VE Testing Schedule Change

There will be no VE testing in April, June or October. April is the Annual Auction, June is a combined general meeting/field day and the October meeting is PACIFICON.



## REDWOOD COAST AMATEUR RADIO CONVENTION

The ARRL San Francisco Section Convention.  
June 28th, 29th, 30th, 2002

Humboldt County Fairgrounds Ferndale,  
California

Swap Meet - Commercial Dealers - ARRL  
Forum - Fox Hunt - Early Bird Prizes - Guest  
Speakers - Field Day Competition.

For more information, contact Marci,  
KE6IAU, at [conven@humboldt-arc.org](mailto:conven@humboldt-arc.org), or phone  
707-442-3866.



# MDARC Board of Directors

Position	Who	How to find them
President	Terry Matzkin KE6WRE	925-820-5848 (h) myword@sprynet.com
Vice President	David McIntyre KG6ACD	925-625-1829 (h) prinz@pacbell.net
Secretary	Eoin O'Donoghue KD4YEQ	925-938-3867 (h) eoin@odonoghue.com
Treasurer	Trevor Hall WA6JAU	925-680-5209 (h) wa6jau@netzero.net
Emergency Coordinator	Harry Styron K6HS	925-945-6785 (h) k6hs@arrl.net
Director at Large	Howard Burk KE6PTT	925-798-7208 (h) ke6ptt@bigfoot.com
Director at Large	John Schulze KR6CR	925-681-0552 (h) schulze2@ix.netcom.com
Director at Large	Jay Caldis KT6Y	925-939-1893 (h) pcaldis@earthlink.net
Director at Large	John Pascale NN6E	925-625-9356 (h) nn6e@arrl.net
Membership Chair	Eoin O'Donoghue KD4YEQ	925-938-3867 (h) eoin@odonoghue.com
Carrier Editor	Bob Beard KG6FPZ	925-372-6997(h) rbeard@speakeasy.net
PACIFICON		pacificon@pacificon.org

**ANAHEIM, CA**  
(Near Disneyland)  
933 N. Euclid St., 92801  
(714) 533-7373  
**(800) 854-6046**  
Janet, KL7MF, Mgr.  
anaheim@hamradio.com

**BURBANK, CA**  
2492 W. Victory Bl., 91506  
(818) 842-1786  
**(800) 854-6046**  
Eric, KA6HT, Mgr.  
Victory Blvd. at Buena Vista  
1 mi. west I-5  
burbank@hamradio.com

**OAKLAND, CA**  
2210 Livingston St., 94606  
(510) 534-5757  
**(800) 854-6046**  
Mark, W17YN, Mgr.  
I-880 at 23rd Ave. ramp  
oakland@hamradio.com

**SAN DIEGO, CA**  
5375 Kearny Villa Rd., 92123  
(619) 560-4900  
**(800) 854-6046**  
Tom, KM6K, Mgr.  
Hwy. 163 & Claremont Mesa  
sandiego@hamradio.com

**SUNNYVALE, CA**  
510 Lawrence Exp. #102  
94085  
(408) 736-9496  
**(800) 854-6046**  
Ken, K1ZKM, Mgr.  
So. from Hwy. 101  
sunnyvale@hamradio.com

**NEW CASTLE, DE**  
(Near Philadelphia)  
1500 N. Dupont Hwy., 19720  
(302) 322-7092  
**(800) 644-4476**  
Rick, K3TL, Mgr.  
RT-13 1/4 mi. So. I-295  
newcastle@hamradio.com

**PORTLAND, OR**  
11705 S.W. Pacific Hwy.  
97223  
(503) 598-0555  
**(800) 854-6046**  
Rich, N7FD, Mgr.  
Tigard-99W exit  
from Hwy. 5 & 217  
portland@hamradio.com

**DENVER, CO**  
8400 E. Iliff Ave. #9, 80231  
(303) 745-7373  
**(800) 444-9476**  
Joe, KD8GA, Mgr.  
John, N5EHP, Mgr.  
denver@hamradio.com

**PHOENIX, AZ**  
1939 W. Dunlap Ave., 85021  
(602) 242-3515  
**(800) 444-9476**  
Gary, N7GJ, Mgr.  
1 mi. east of I-17  
phoenix@hamradio.com

**ATLANTA, GA**  
6071 Buford Hwy., 30340  
(770) 263-0700  
**(800) 444-7927**  
Mark, K4V0, Mgr.  
Doraville, 1 mi. no. of I-285  
atlanta@hamradio.com

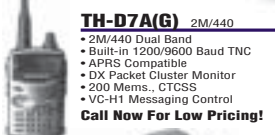
**WOODBIDGE, VA**  
(Near Washington D.C.)  
14803 Build America Dr.  
22191  
(703) 643-1063  
**(800) 444-4799**  
Mike, I4MDK, Mgr.  
Exit 161, I-95, So. to US 1  
woodbridge@hamradio.com

**SALEM, NH**  
(Near Boston)  
224 N. Broadway, 03079  
(603) 899-3750  
**(800) 444-0047**  
Chuck, KMANZ, Mgr.  
sales@hamradio.com  
Exit 1, I-93,  
28 mi. No. of Boston  
saalem@hamradio.com

## 12 Store Buying Power!



**TS-2000** HF/VHF/UHF TCVR  
• 100W HF, 6M, 2M • 50W 70CM  
• 10W 1.2 GHz w/optional UT-20 module  
• IF Stage DSP • Built-in TNC, DX packet cluster  
• Backlit Front Key Panel  
**Call Now For Low Intro Price!**



**TH-D7A(G)** 2M/440  
• 2M/440 Dual Band  
• Built-in 1200/9600 Baud TNC  
• APRS Compatible  
• DX Packet Cluster Monitor  
• 200 Mems., CTCSS  
• VC-H1 Messaging Control  
**Call Now For Low Pricing!**



**TM-D700A** 2M/440 Dualband  
• 50W VHF 35W UHF • Opt. Voice Synthesizer  
• Receives 118-1300 mHz (cell blocked)  
• Remote Head Inst. only (kit included)  
• 200 Memories • Built In 1200/9600 baud TNC  
• Advanced APRS Features  
• Dx Packet Cluster  
• Tone Scan • GPS/VC-H1/PC Ports

**COAST TO COAST  
FREE SHIPPING**  
UPS - Most Items Over \$100

**Rapid Deliveries From  
The Store Nearest To You!**

**OAKLAND, CA**  
2210 Livingston St., 94606  
(510) 534-5757  
**(800) 854-6046**  
Mark, W17YN, Mgr.  
I-880 at 23rd Ave. ramp  
oakland@hamradio.com

**SUNNYVALE, CA**  
510 Lawrence Exp. #102, 94085  
(408) 736-9496  
**(800) 854-6046**  
Ken, K1ZKM, Mgr.  
So. from Hwy. 101  
sunnyvale@hamradio.com



**IC-706MkII** HF/VHF Transceiver  
• All mode HF/6M/2M/70CM  
• 100W HF/6M, 50W/2M, 20W/440 MHz  
• AF-DSP • Plug and Play Filters - No Soldering  
• Easy-to-Navigate Menus  
**Call For Low Pricing!**



**IC-756 PRO** All Mode Transceiver  
• 100W HF/6M • Newly designed 32 bit DSP  
• 5 inch TFT color LCD • Digital IF filter with  
41 passband widths  
• 121 microphone equalized audio settings  
• Multiple DSP controlled AGC loops  
• Advanced CW functions  
• Real time spectrum scope  
**Call Now For The Ultimate Radio!**



**VX-5R** 50/2M/440HT  
• Wideband RX,  
6M-2M-440TX  
• 5W output  
• 220 mems, opt. barometer unit  
• Alpha Numeric Display  
• CTCSS/DCS built-in  
• Li-Ion Battery  
**Call For Low Price!**



**Call Now For Low Pricing!**



**FT-100D** HF/6M/2M/70CM Trans.  
• Compact Transceiver w/detachable  
front panel  
• Rx 100kHz to 970mHz (cell blocked)  
• Tx 100W 160-6M, 50w 2M, 20W 70CM  
• Built-in DSP, Vox, CW keyer  
• 300 Memories  
**Call Now For Low Pricing!**



**CALL NOW FOR LOW PRICE!**



**DR-135TP** 2M Mobile

• 50 Watt out • Alpha Numeric Display  
• 100 mems • Built-in TNC 1200 & 9600 Baud  
• Front Panel GPS in • Rear DB-9 Port  
• CTCSS/DCS Encode/Decode built in



**FT-1000MP** HF Transceiver  
• Enhanced Digital Signal Processing  
• Dual RX  
• Collins SSB filter built-in  
• 100W, Power supply built-in  
**Call Now For Low Pricing!**

## CALENDAR OF EVENTS

04/01/2002	7:30 PM	MDARC Board Meeting	Emil Villa's in Concord
04/19/2002	7:30 PM	MDARC General Meeting	
04/20/2002	8:00 AM	PACIFICON General meeting	Emil Villa's Willow Pass Rd
04/20/2002		Carrier Deadline	
05/06/2002	7:30 PM	MDARC Board Meeting	Emil Villa's in Concord
05/17/2002	7:30 PM	MDARC General Meeting	
05/18/2002	8:00 AM	PACIFICON General meeting	Emil Villa's Willow Pass Rd
05/25/2002		Carrier Deadline	

Carrier articles should be sent to Bob Beard <mailto:rbeard@speakeasy.net>

## MDARC Repeaters

147.060 MHz + / PL 100 Hz	ATV: Input 1289.25 Mhz
224.780 MHz - / PL 77 Hz	ATV: Output 427.250 MHz Cable Channel 58
441.325 MHz + / PL 100 Hz	ATV: Output 1241.25 Mhz
	APRS: 144.39 MHz
	TCP/IP: 145.71 MHz

**The Carrier**  
**Newsletter of the Mt. Diablo Amateur Radio Club**  
**P.O. Box 23222**  
**Pleasant Hill, CA 94523**

<b>PRSRT STD</b>
U.S. POSTAGE
<b>PAID</b>
CONCORD, CA
PERMIT NO. 460

**Change    Service Requested**